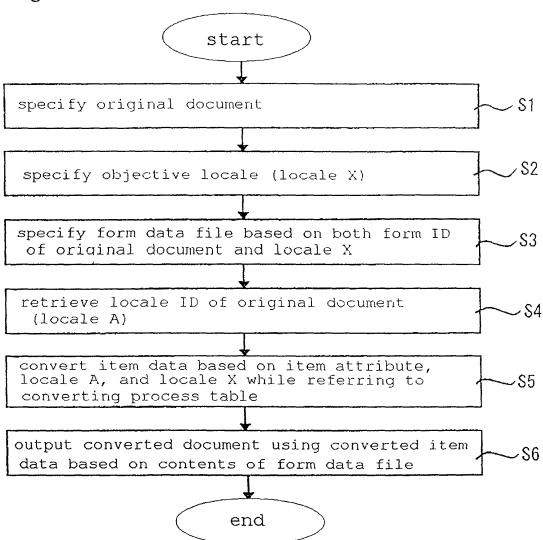Serial No.: 09/820,368
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Fig. 1

start

specify original document	S1

specify objective locale (locale X)	S2

specify form data file based on both form ID of original document and locale X	S3

retrieve locale ID of original document (locale A)	S4

convert item data based on item attribute, locale A, and locale X while referring to converting process table	S5

output converted document using converted item data based on contents of form data file	S6

end

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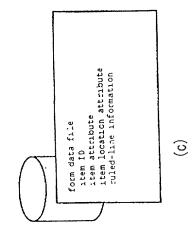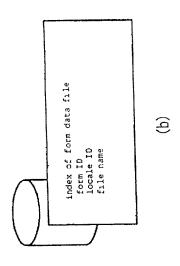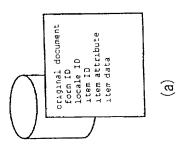Filed: March 29, 2001
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Fig. 2

form data file
item ID
item attribute
item location attribute
ruled-line information

(c)

index of form data file
form ID
locale ID
file name

(b)

original document
form ID
locale ID
item ID
item attribute
item data

(a)

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Fig. 3

OBJECTIVE (LOCALE US)

FAMILY NAME	TSUBASA
FIRST NAME	TARO
BIRTHDATE	30-Nov-75
SEX	M
BLOOD	AB
ADDRESS	⋯ Tokyo, JAPAN
PHONE	+81-3-3XXX-XXXX
JOB	Software engineer

(b)

ORIGINAL (LOCALE JP)

FAMILY NAME	ツバサ
FIRST NAME	タロウ
BIRTHDATE	昭和50年11月30日
SEX	男
BLOOD	AB
ADDRESS	東京都江東区…
PHONE	03-3XXX-XXXX
JOB	ソフトウェア技術者

(a)

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Fig. 4

```
<LOCALE>JP</LOCALE>
<FIELD ID="F001" TYPE="FAMILY_NAME">ツバサ</FIELD>
<FIELD ID="F002" TYPE="FIRST_NAME">タロウ</FIELD>
<FIELD ID="F003" TYPE="BIRTHDATE">昭和50年11月30日</FIELD>
<FIELD ID="F004" TYPE="SEX">男</FIELD>
<FIELD ID="F005" TYPE="BLOOD">AB</FIELD>
<FIELD ID="F006" TYPE="ADDRESS">東京都江東区…</FIELD>
<FIELD ID="F007" TYPE="PHONE">03-3XXX-XXXX</FIELD>
<FIELD ID="F008" TYPE="JOB">ソフトウェア技術者</FIELD>
```

Fig. 5

ATTRIBUTE	ORIGINAL	OBJECTIVE	PROCESS NAME
FAMILY NAME	JP	US	NAME-JP-US
FIRST NAME	JP	US	NAME-JP-US
BIRTHDATE	JP	US	DATE-US-JP
SEX	JP	US	SEX-JP-US
ADDRESS	JP	US	ADDR-JP-US
PHONE	JP	US	PHONE-JP-US
JOB	JP	US	JOB-JP-US

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Fig. 6

ATTRI	ORIGINAL	OBJECTIVE	PROCESS NAME
DATE	JP	US	DATE-JP-US
DATE	JP	FR	DATE-JP-FR
DATE	US	JP	DATE-US-JP
:	:	:	:
CURRENCY	JP	US	CURR-JP-JP
CURRENCY	JP	FR	CURR-JP-FR
CURRENCY	US	JP	CURR-US-JP
:	:	:	:
OTHER			(NONE)

Fig. 7

```
<LOCALE>US</LOCALE>
<FIELD ID="F001" TYPE="FAMILY_NAME">TSUBASA</FIELD>
<FIELD ID="F002" TYPE="FIRST_NAME">TAROU</FIELD>
<FIELD ID="F003" TYPE="BIRTHDATE">30-Nov-75</FIELD>
<FIELD ID="F004" TYPE="SEX">M</FIELD>
<FIELD ID="F005" TYPE="BLOOD">AB</FIELD>
<FIELD ID="F006" TYPE="ADDRESS">...Tokyo ,JAPAN</FIELD>
<FIELD ID="F007" TYPE="PHONE">+81-3-3XXX-XXXX</FIELD>
<FIELD ID="F008" TYPE="JOB">Software Engineer</FIELD>
```

Fig. 8

```
<LOCALE>JP</LOCALE>
<FIELD ID="F001" TYPE="FAMILY_NAME">ツバサ</FIELD>
<FIELD ID="F001C" TYPE="FIELDCAPTION">姓</FIELD>
<FIELD ID="F002" TYPE="FIRST_NAME">タロウ</FIELD>
<FIELD ID="F002C" TYPE="FIELDCAPTION">名</FIELD>
    :
```

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Fig. 9

```
<LOCALE>JP</LOCALE>
<FORM ID="FM001">
<FIELD ID="F001" TYPE="FAMILY_NAME">ツバサ</FIELD>
<FIELD ID="F002" TYPE="FIRST_NAME">タロウ</FIELD>
<FIELD ID="F003" TYPE="BIRTHDATE">昭和50年11月30日</FIELD>
<FIELD ID="F004" TYPE="SEX">男</FIELD>
<FIELD ID="F005" TYPE="BLOOD">AB</FIELD>
<FIELD ID="F006" TYPE="ADDRESS">東京都江東区…</FIELD>
<FIELD ID="F007" TYPE="PHONE">03-3XXX-XXXX</FIELD>
<FIELD ID="F008" TYPE="JOB">ソフトウェア技術者</FIELD>
</FORM>
```

Fig. 10

form ID	locale	locale-classified form data name
FM0001	JP	FM0001JP
FM0001	US	FM0001US
FM0001	FR	FM0001FR
FM0001	KR	FM0001KR
:		

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Fig. 11

TYPE	ID	LEFT	TOP	RIGHT	BOTTOM	FONTSTYLE	LINEWIDTH	BGCOLOR	FGCOLOR
FIELD	F001	100	10	200	20	BOLD	—	WHITE	BLACK
FIELD	F002	100	30	200	40	BOLD	—	WHITE	BLACK
FIELD	F003	100	50	200	60	NORMAL	—	GRAY	BLACK
FIELD	F004	100	70	200	80	NORMAL	—	WHITE	BLACK
FIELD	F005	100	90	200	100	ITLIC	—	WHITE	BLUE
HLINE	HL001	5	5	205	5	—	2	WHITE	BLACK
HLINE	HL002	5	25	205	25	—	2	WHITE	BLACK
HLINE	HL003	5	45	205	45	—	2	WHITE	BLACK
VLINE	VL001	5	5	5	105	—	2	WHITE	BLACK
VLINE	VL001	95	5	95	105	—	2	WHITE	BLACK
VLINE	VL001	205	5	205	105	—	2	WHITE	BLACK

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Fig. 12

```
<LOCALE>US</LOCALE>
<FORM ID="FM001">
<FIELD ID="F001" TYPE="FAMILY_NAME" LEFT=100 TOP=10 RIGHT=200 BOTTOM=20
FONTSTYLE=BOLD BGCOLOR="WHITE" FGCOLOR="BLACK">TSUBASA</FIELD>
    :
```

Fig. 13

```
<LOCALE>US</LOCALE>
<FORM ID="FM001">
<FIELD ID="F001" TYPE="FAMILY_NAME" LEFT= ... >TSUBASA</FIELD>
    :
<HLINE ID="HL003" LEFT=5 TOP=45 RIGHT=205 BOTTOM=20  BGCOLOR="WHITE"
FGCOLOR="BLACK">
<VLINE ID= ... >
<SQUARE ID= ... >
    :
</FORM>
```

Fig. 14

```
<FIELD ID="F101" HIDDEN="YES" TYPE="FAMILY_NAME" LEFT= ... >ABCD...</FIELD>
```

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Fig. 15

```
<LOCALE>JP</LOCALE>
<FIELD ID="F001" LEFT=100 TOP=10 WIDTH=80 FONTSTYLE="bold" TYPE="FAMILY_N     ツバサ
</FIELD>
<FIELD ID="F002" LEFT=100 TOP=20 WIDTH=80 FONTSTYLE="bold" TYPE="FIRST_NAME">タロウ
</FIELD>
<FIELD ID="F003" TYPE="BIRTHDATE">昭和50年11月30日</FIELD>
<FIELD ID="F004" LEFT=100 TOP=40 WIDTH=80 COLOR="blue" TYPE="SEX">男</FIELD>
  ..
```

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Fig. 16

```
<LOCALE>JP</LOCALE>
<FIELDS>
<FIELD ID="F001" TYPE="FAMILY_NAME">ツバサ</FIELD>
<FIELD ID="F002" TYPE="FIRST_NAME">タロウ</FIELD>
<FIELD ID="F003" TYPE="BIRTHDATE">昭和50年11月30日</FIELD>
<FIELD ID="F004" TYPE="SEX">男</FIELD>
<FIELD ID="F005" TYPE="BLOOD">AB</FIELD>
<FIELD ID="F006" TYPE="ADDRESS">東京都江東区…</FIELD>
<FIELD ID="F007" TYPE="PHONE">03-3XXX-XXXX</FIELD>
<FIELD ID="F008" TYPE="JOB">ソフトウェア技術者</FIELD>
</FIELDS>

<OUTPUTSTYLE>
<F001>
<LEFT VALUE=100>
<TOP VALUE=10>
<WIDTH VALUE=80>
<FONTSTYLE=BOLD>
</F001>
<F002>
<LEFT VALUE=100>
<TOP VALUE=20>
<WIDTH VALUE=80>
<FONTSTYLE=BOLD>
</F002>
     :
</OUTPUTSTYLE>
```

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Fig. 17

ATTRIBUTE	ORIGINAL	OBJECTIVE	INTERFACE	PROCESS NAME
DATE	JP	US	Internal	DATE-JP-US
DATE	JP	FR	Internal	DATE-JP-FR
DATE	US	JP	Internal	DATE-US-JP
..	..	..		..
CURRENCY	JP	US	DLL	UserCRR.DLL:CURR-JP-US
CURRENCY	JP	FR	Java	FormDocConvClass:CURR-JP-FR
CURRENCY	US	JP	DLL	UserCRR.DLL:CURR-US-JP
..	..	..		..
PHONE	JP	US	Macro	PhoneMacroJP-US
..	..			
MISC	JP	US	Application	TRANSJE.exe

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Fig. 18

○ internal translating module

○ external translating software A

◉ external translating software B

○ other application

[   ]   reference